

APRIL/MAY 2024

**23PECS14A — ADVANCED SOFTWARE
ENGINEERING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is a Software engineering?
2. List out the four P's of Software project management.
3. What is Size-oriented metrics?
4. List the primary goals of software engineering.
5. What is Software project management?
6. What are the major factors that influence the software cost?
7. Differentiate between Cardinality and modality.
8. Define Process metrics.
9. List the four categories of tests that a program will perform on a program unit.

10. Distinguish between Alpha and Beta test.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss the Software process framework.

Or

- (b) Explain the Waterfall model with a neat sketch.

12. (a) Write a note on Requirement analysis.

Or

- (b) Discuss the Software quality assurance.

13. (a) Explain the Software project estimation.

Or

- (b) What are the responsibilities of a Software project manager?

14. (a) Distinguish between Cohesion and Coupling.

Or

- (b) Explain the Strategy of design.

15. (a) Explain the Art of Debugging.

Or

- (b) Discuss about Validation testing.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the Evolutionary process models.

17. Explain the Formal system specification.

18. Discuss the COCOMO model with a neat sketch,

19. Explain the Object-oriented design.

20. Discuss the concept of Software Reengineering.